

## ABSTRACT OF THE DISCLOSURE

**[00393]** A network system comprising a resource managing unit for managing statuses of node resources and link resources, a node function location controlling unit for relocating functions of nodes into an optimum condition in accordance with the statuses of node resources, a path structure controlling unit for restructuring a structure of paths into an optimum condition in accordance with the statuses of link resources, and an adaptive control determining unit for instructing relocation of functions or restructuring of paths on the basis of the statuses of node resources and link resources.